

Title (en)
ROTOR ASSEMBLY AND SELF-STARTING PERMANENT MAGNET SYNCHRONOUS RELUCTANCE ELECTRIC MOTOR

Title (de)
ROTORANORDNUNG UND SELBSTSTARTENDER PERMANENTMAGNET-SYNCHRONRELUKTANZELEKTROMOTOR

Title (fr)
ENSEMBLE ROTOR ET MOTEUR ÉLECTRIQUE À RÉLUCTANCE SYNCHRONE À AIMANT PERMANENT À DÉMARRAGE AUTOMATIQUE

Publication
EP 4243248 A4 20240424 (EN)

Application
EP 21922373 A 20211018

Priority

- CN 202110102655 A 20210126
- CN 2021124325 W 20211018

Abstract (en)
[origin: EP4243248A1] The present application provides a rotor assembly and a self-starting permanent magnet synchronous reluctance motor. The rotor assembly includes a rotor core (1), wherein on a cross section of the rotor core (1), the rotor core (1) is provided with slit slots (2), q-axis squirrel cage slots (41) and permanent magnets (3), the q-axis squirrel cage slots (41) are disposed at two ends of the slit slots (2), the permanent magnets (3) are disposed in the slit slots (2), the permanent magnet (3) located at the innermost layer in a d-axis direction is at least asymmetrically disposed relative to a d-axis, and an offset direction of the permanent magnet (3) located at the innermost layer relative to the d axis is consistent with a rotation direction of the rotor assembly.

IPC 8 full level
H02K 1/24 (2006.01); **H02K 1/26** (2006.01); **H02K 1/276** (2022.01); **H02K 21/46** (2006.01)

CPC (source: CN EP KR US)
H02K 1/223 (2013.01 - KR); **H02K 1/246** (2013.01 - EP); **H02K 1/265** (2013.01 - EP); **H02K 1/27** (2013.01 - CN); **H02K 1/272** (2013.01 - CN KR); **H02K 1/276** (2013.01 - EP); **H02K 17/16** (2013.01 - KR); **H02K 19/14** (2013.01 - KR); **H02K 21/02** (2013.01 - CN); **H02K 21/46** (2013.01 - EP KR US); **H02K 2201/06** (2013.01 - CN KR); **H02K 2213/03** (2013.01 - CN EP KR)

Citation (search report)

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Designated contracting state (EPC)
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